

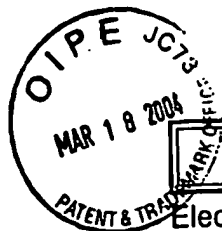


ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18



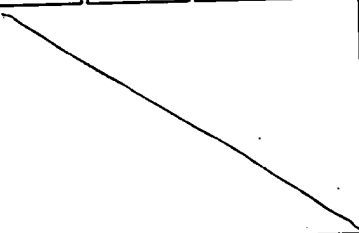




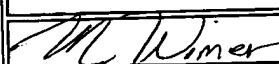
Stylesheet Version v18.0

Title of Invention	ANTENNA CONFIGURATIONS FOR REDUCED RADAR COMPLEXITY																																													
<p>Application Number: 10/619020 Confirmation Number: 6396 First Named Applicant: Joseph Pleva Attorney Docket Number: RTN-147CUS Art Unit: 3662 Search string: (4409899 or 5812083 or 6069581 or 6268793 or 6297732 or 6339369).pn.</p> <p>US Patent Documents</p> <p>Note: Applicant is not required to submit a paper copy of cited US Patent Documents</p> <table border="1"><thead><tr><th>init</th><th>Cite.No.</th><th>Patent No.</th><th>Date</th><th>Patentee</th><th>Kind</th><th>Class</th><th>Subclass</th></tr></thead><tbody><tr><td></td><td>1</td><td>4409899</td><td>1983-10-18</td><td>Owen et al.</td><td rowspan="6"></td><td rowspan="6"></td><td rowspan="6"></td></tr><tr><td></td><td>2</td><td>5812083</td><td>1998-09-22</td><td>Johnson et al.</td></tr><tr><td></td><td>3</td><td>6069581</td><td>2000-05-30</td><td>Bell et al.</td></tr><tr><td></td><td>4</td><td>6268793</td><td>2001-07-31</td><td>Rossi</td></tr><tr><td></td><td>5</td><td>6297732</td><td>2001-10-02</td><td>Hsu et al.</td></tr><tr><td></td><td>6</td><td>6339369</td><td>2002-01-15</td><td>Paranjpe</td></tr></tbody></table> <p>Signature</p> <table border="1"><thead><tr><th>Examiner Name</th><th>Date</th></tr></thead><tbody><tr><td></td><td>12/02/2004</td></tr></tbody></table>		init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass		1	4409899	1983-10-18	Owen et al.					2	5812083	1998-09-22	Johnson et al.		3	6069581	2000-05-30	Bell et al.		4	6268793	2001-07-31	Rossi		5	6297732	2001-10-02	Hsu et al.		6	6339369	2002-01-15	Paranjpe	Examiner Name	Date		12/02/2004
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Stylesheet Version v18.0

Title of Invention	ANTENNA CONFIGURATIONS FOR REDUCED RADAR COMPLEXITY						
<div>Application Number: 10/619020</div> <div>Confirmation Number: 6396</div> <div>First Named Applicant: Joseph Pleva</div> <div>Attorney Docket Number: RTN-147CUS</div> <div>Search string: (5132693 or 6160514 or 6307882 or 6463303 or 6642908).pn.</div> <div></div>							
US Patent Documents							
Note: Applicant is not required to submit a paper copy of cited US Patent Documents							
init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
	1	5132693	1992-07-21	Werp			
	2	6160514	2000-12-12	Judd			
	3	6307882	2001-10-23	Marzetta			
	4	6463303	2002-10-08	Zhao			
	5	6642908	2003-11-04	Pleva et al			
Signature							
Examiner Name					Date		
					12/02/2004		

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Sheet 1 of 2

Complete if Known

Application Number	10/619,020
Filing Date	July 14, 2003
First Named Inventor	Joseph S. Plava
Art Unit	2821-2828
Examiner Name	Not Yet Assigned Wink
Attorney Docket Number	RTN-147CUS

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	US-	5,949,365	09/07/1999	Wagner	
	US-	6,137,434	10/24/2000	Tohya et al.	
	US-	6,414,631	07/02/2002	Fujimoto	
	US-	2002/0163478	11/07/2002	Plava et al.	
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Examiner Signature	<i>M. Wink</i>	Date Considered	12/02/2004
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Sheet	2	of	2
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Complete if Known

Application Number

10/619.020

Filing Date

July 14, 2003

First Named Inventor

Joseph S. Pleva

Art Unit

~~2821~~ 2828

Examiner Name

Not Yet Assigned 2/2/22

Attorney Docket Number

RTN-147CUS

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS

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Initials***

Cite
No. 1

Includes name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

• 丁

PCT Search Report; PCT Application No. PCT/US03/35578; dated April 5, 2004

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Date
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/619.020
Filing Date	July 14, 2003
First Named Inventor	Joseph S. Pieva
Art Unit	2828
Examiner Name	Michael C. Wimer
Attorney Docket Number	RTN-147CUS

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FOREIGN PATENT DOCUMENTS

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Examiner Initials*	Che No.†	Foreign Patent Document Country Code ² Number ⁴ Kind Code ³ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document†	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
<i>Wm</i>		GB 1 143 997	02/28/1969	Raytheon Company	
<i>Wm</i>		GB 2 315 644	02/04/1998	Motorola	
<i>Wm</i>		EP 0 668 627	08/23/1995	Northern Telecom Ltd.	
<i>Wm</i>		EP 0 883 208	09/12/1998	Northern Telecom Ltd.	

Examining

Signature *M. Limer*

Date Considered

12/02/2004

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		Application Number	10/619,020
		Filing Date	July 14, 2003
		First Named Inventor	Joseph S. Plava
		Art Unit	2828
		Examiner Name	Michael C. Wimer
Sheet 2 of 2	Attorney Docket Number	RTN-147CUS	

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>JPW</i>		EP Search Report; EP Application No. 01/96 5965; dated August 19, 2004	X

Examiner Signature <i>MLC</i>	Date Considered 12/02/2004
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Application Number	10/619,020
Filing Date	July 14, 2003
First Named Inventor	Joseph S. Pleva
Art Unit	2828
Examiner Name	Michael C. Wimer
Attorney Docket Number	RTN-147CUS

Sheet	2	of	2
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OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>mm</i>		Supplementary European Search Report; EP Application No. 01/96 5964; November 11, 2004	

Examiner Signature	<i>M. Wimer</i>	Date Considered	3/15/2004
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.Pursuant to 37 C.F.R. §1.98(d), copies of references marked with a * which were previously cited by or submitted to the Patent Office in Parent Application No. 09/932,574, filed August 16, 2001 are not enclosed.

filed 7/14/2003 10/6/9,020

PTO/SB/08A (02-03)

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		Filing Date	Herewith
		First Named Inventor	Joseph S. Pleva
		Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
Sheet 1 of 2	Attorney Docket Number	RTN-147CUS	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	*	US- 5189426	02/23/1993	Asbury et al.	
	*	US- 5249027	09/28/1993	Mathur et al.	
	*	US- 5249157	09/28/1993	Taylor	
	*	US- 5268692	12/07/1993	Grosch et al.	
	*	US- 5280288	01/18/1994	Sherry et al.	
	*	US- 5285207	02/08/1994	Asbury et al.	
	*	US- 5302956	04/12/1994	Asbury et al.	
	*	US- 5315303	05/24/1994	Tsou et al.	
	*	US- 5341144	08/23/1994	Stove	
	*	US- 5351044	09/27/1994	Mathur et al.	
	*	US- 5390118	02/14/1995	Margolis et al.	
	*	US- 5400864	03/28/1995	Winner et al.	
	*	US- 5454442	10/03/1995	Labuhn et al.	
	*	US- 5467072	11/14/1995	Michael	
	*	US- 5467283	11/14/1995	Butsuen et al.	
	*	US- 5471214	11/28/1995	Faibish et al.	
	*	US- 5481268	01/02/1996	Higgins	
	*	US- 5483453	01/09/1996	Uemura et al.	
	*	US- 5485155	01/16/1996	Hibino	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				

Examiner Signature	<i>M. Zimmer</i>	Date Considered	12/02/2004
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Sheet	2	of	2
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Application Number	Not Yet Assigned
Filing Date	Herewith
First Named Inventor	Joseph S. Pleva
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	RTN-147CUS

U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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**Examiner
Signature**

Th. Winter

Date
Considered

12/21/2004

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		Art Unit	Not Yet Assigned
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Sheet	1	of	1

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	*	US- 4143370	03/06/1979	Yamanaka et al.	
	*	US- 4217582	08/12/1980	Endo et al.	
	*	US- 4308536	12/29/1981	Sims, Jr. et al.	
	*	US- 4348675	09/07/1982	Senzaki et al.	
	*	US- 4543577	09/24/1985	Tachibana et al.	
	*	US- 4549181	10/22/1985	Tachibana et al.	
	*	US- 4622636	11/11/1986	Tachibana	
	*	US- 4673937	06/16/1987	Davis	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)				

Examiner Signature <i>M. Wimer</i>	Date Considered 12/02/2004
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filed 7/4/2003

10/6/9,020

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PTO/SB/08A (02-03)


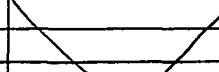





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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	Not Yet Assigned
		Filing Date	Herewith
		First Named Inventor	Joseph S. Pleva
		Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
		Attorney Docket Number	RTN-147CUS
Sheet	1	of	2

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
[Signature]	*	US- 5451960	09/19/1995	Kastella et al.	
	*	US- 5929802	07/27/1999	Russell et al.	
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		Country Code ³ *Number ⁴ *Kind Code ⁵ (if known)				
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	*	198 50 128	05/28/1999	DE		
	*	EP 0 932 052	07/28/1999	EP		
	*	198 55 400	12/01/1998	DE		
	*	0 484 995	05/13/1992	EPO		
	*	0 784 213	01/13/1996	EPO		

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				Filing Date	Herewith
				First Named Inventor	Joseph S. Pleva
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	2	of	2	Attorney Docket Number	RTN-147CUS

OTHER PRIOR ART—NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
<i>PK</i>	.	International Search Report of PCT Application No. PCT/US01/25638 dated May 7, 2002.	
	.	Partial International Search Report of PCT Application No. PCT/US01/25642 dated May 27, 2002.	
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Examiner Signature	<i>M. Wimer</i>	Date Considered	12/02/2004
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		Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
Sheet 1 of 3	Attorney Docket Number	RTN-147CUS	

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	*	US- 4962383	10/09/1990	Tresselt	
	*	US- 6097931	08/01/2000	Weiss et al.	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
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	*	EP 0 642 190 A1	12/30/1993		
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	*	DE 195 23 693	05/14/1998		
	*	DE 196 32 889	02/19/1998		
	*	0 398 712	05/17/1990		

Examiner Signature	<i>N. Wimer</i>	Date Considered	12/02/2004
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Sheet	2	of	3
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Complete if Known

Application Number	Not Yet Assigned
Filing Date	Herewith
First Named Inventor	Joseph S. Pleva
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	RTN-147CUS

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		Number-Kind Code 2 (if known)			
Jm	*	US- 5613039	03/18/1997	Wang et al.	
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	*	US- 5394292	02/28/1995	Hayashida	
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	*	US- 5008678	04/16/1991	Herman	
	*	US- 5978736	11/02/1999	Greendale	
	*	US- 5999092	12/07/1999	Smith et al.	
Jm	*	US- 6026353	02/15/2000	Winner	
	*	US- 6087975	07/11/2000	Sugimoto et al.	
	*	US- 6317090	11/13/2001	Nagy et al.	
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		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY			
<i>[Signature]</i>	*	1 020 989	07/19/2000			
<i>[Signature]</i>	*	0 982 173	03/01/2000			

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M. T. Liner

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		First Named Inventor	Joseph S. Pleva
		Art Unit	Not Yet Assigned
		Examiner Name	Not Yet Assigned
Sheet 3 of 3	Attorney Docket Number	RTN-147CUS	

OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS			
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Examiner Signature <i>[Signature]</i>	Date Considered 12/02/2004
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<i>JP</i>	*	US- 6233516	05/15/2002	Egawa	
	*	US- 6255984	06/06/2001	Kreppold et al.	
	*	US- 6256573	07/03/2001	Higashimata	
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Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
<i>JP</i>	*	EP 0 978 729 A2	02/09/2000		
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	*	DE 195 23 693	05/14/1998		
	*	DE 196 32 889	02/19/1998		
<i>JP</i>	*	0 398 712	05/17/1990		

Examiner Signature	<i>M. J. Pleva</i>	Date Considered	12/02/2004
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Application Number	Not Yet Assigned
Filing Date	Herewith
First Named Inventor	Joseph S. Pleva
Art Unit	Not Yet Assigned
Examiner Name	Not Yet Assigned
Attorney Docket Number	RTN-147CUS

Sheet	2	of	3
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		Number-Kind Code ² (if known)			
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	*	US- 5583495	12/10/1996	Ben Lu Lu	
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<i>ME</i>	*	1 020 989	07/19/2000		X	
<i>EN</i>	*	0 982 173	03/01/2000			

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				First Named Inventor	Joseph S. Pleva
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		Number-Kind Code ² (if known)			
<i>[Signature]</i>	*	US- 6049257	04/11/2000	Hauk	<i>[X]</i>
	*	US- 6057797	05/02/2000	Wagner	
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<i>[Signature]</i>	*	US- 6184819	02/06/2001	Adomat et al.	
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
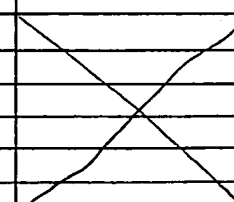

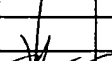
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